

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/HU2005/000031

International filing date (day/month/year)
24.03.2005

Priority date (day/month/year)
25.03.2004

International Patent Classification (IPC) or both national classification and IPC
F16H21/48

Applicant
NADAS, Béla

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/HU2005/000031

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/HU2005/000031

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-8
	No: Claims	
Inventive step (IS)	Yes: Claims	1-8
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-8
	No: Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/HU2005/000031

Re Item V**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

The document FR-A-1 058 839 is regarded as being the closest prior art to the subject-matter of claim 1, and shows in figure 21 (the references in parentheses applying to this document): Driving mechanism for transferring torque from a driving shaft (M) to a driven shaft (R), which consists of a first connecting part-unit attached to the driving shaft (M) and a second connection part-unit attached to the driven shaft (R), and a coupling gear (H2) inserted between the first connecting part-unit (S1,L1,M) and the second connecting part-unit (S2,L2,R), the first connecting part-unit (S1,L1,M) contains an first output member attached to the driving shaft (M) in a fixed position, a first motion transfer unit (S1,L1) connected to the first output member via a one-degree-of-freedom connecting element and a motion piece (H2) connected to the first motion transfer unit (S1,L1) in a rotating way, where there is an first intermediate connecting piece between the one end of the first motion transfer unit (S1,L1) connected to the first output and its other end connected to the motion piece (H2), and the section between the one end of the first motion transfer unit (S1,L1) and the first intermediate connecting piece, and the section between the other end of the first motion transfer unit (S1,L1) and the intermediate connecting piece are at an angle 0-180° with respect to each other while the second connecting part-unit (S2,L2,R) contains an second input member attached to the driven shaft (R) in a fixed position, a second motion transfer unit (S2,L2) attached to the second input member via a one degree of freedom connecting element and a motion piece (H2) connected to the second motion transfer unit (S2,L2) in a rotating way, where there is an second intermediate connecting piece between the one end of the second motion transfer unit (S2,L2) connected to the second input member and its other end connected to the motion piece (H2), and the section between the one end of the second motion transfer unit (S2,L2) and the second intermediate connecting piece, and the section between the other end of the second motion transfer unit (S2,L2) and the second intermediate connecting piece are at an angle of 0-180° with respect to each other.

The subject-matter of claim 1 differs from this known driving mechanism in that the coupling gear has a first torque transfer shaft and a second torque transfer shaft embedded in a house in a rotating way, the first torque transfer shaft has an input end and

an output end, the second torque transfer shaft has an input end and an output end, the input end of the first torque transfer shaft is connected to the intermediate connecting piece of the first motion transfer unit of the first connecting part-unit, and its output end is connected to the intermediate connecting piece of the motion transfer unit of the second connecting part-unit allowing torque transfer, but in a self-adjusting way, while the input end of the second torque transfer shaft is connected to the motion piece of the first motion transfer unit of the first connecting part-unit, and its output end is connected to the motion piece of the first motion transfer unit of the second connecting part-unit allowing torque transfer, but in a self-adjusting way. The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to avoid that the angle speed continuously changes.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) as this solution is not known from nor is it rendered obvious by any available prior art document.

The claim 1 and dependent claims 2-8 therefore meet the requirements of Articles 33(2) and 33(3) PCT.